HALO H2O

Trace Moisture Analyzer for Ultra-High-Purity Gases



The HALO trace gas analyzer provides users with the unmatched accuracy, reliability, speed of response and ease of operation that users of Tiger Optics analyzers have come to expect.

Features of the HALO include:

- Tiger Optics' patented Cavity Ring-Down Spectroscopy-based trace gas sensor
- A very compact analyzer footprint
- Ability to measure moisture in most inert, corrosive and toxic gases with just one device
- Freedom from requirements such as periodic sensor maintenance, span calibrations, purifier replacement and pump rebuilds

HALO H2O Brochure (PDF)

<u>Specifications Data</u> <u>Documentation</u> <u>Articles</u> <u>Request a Quote</u>	Specifications	Applications Data	<u>Documentation</u>	Articles	Request a Quote
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HALO H2O -- Specifications

Gas Sample Conditions

Sample Inlet Pressure: 10 - 125 psig (1.7-9.6 bar)

Flow Rate: up to 1800 sccm

Sample Gases: Most Inert, passive, toxic and corrosive gases

Sample Line Temperature: Up to 60°C

Materials of Construction

Materials of Construction: 316L stainless steel (optional Hastelloy®)

Wetted Components:10 Ra surface finishGas Connection:1/4" M VCR Inlet & OutletLeak Tested to: $<2 \times 10^{-8}$ mbar • I /sec

Electrical

Alarm Indicators: User-programmable set points
Power Requirements: 90-240 VAC 50/60 Hz
Power Consumption: 200 Watts max.

Output Signals: Recorder: Isolated 4-20 mA/ 0-5VDC

Alarm: Form-C relay
Communications: RS-422, Wireless (Optional)

User Interface: 5.6" LCD touch screen, 10BaseT Ethernet, RS-232

Dimensions

Mounting: 8.75" x 8.5" x 23.6" (22.2 cm x 21.6 cm x 59.9 cm)

Weight: 28 pounds (12.7 kg)

Performance

Lowest Detection Limit: 2 ppb Sensitivity 1 ppb

Accuracy (greater of) 4% of reading or \pm 1 ppb Speed of Response (typical): 95% response <3 minutes

Operating Range: 0 - 20 ppm. Customized higher ranges are available.

Environmental Conditions: 10° - 40°C
Storage Temperature: -10° - 50°C

Technology

Approvals: CE: LVD & EMC

Method: Cavity Ring-Down Spectroscopy

U.S. Patent #5,528,040
Other Patents Pending